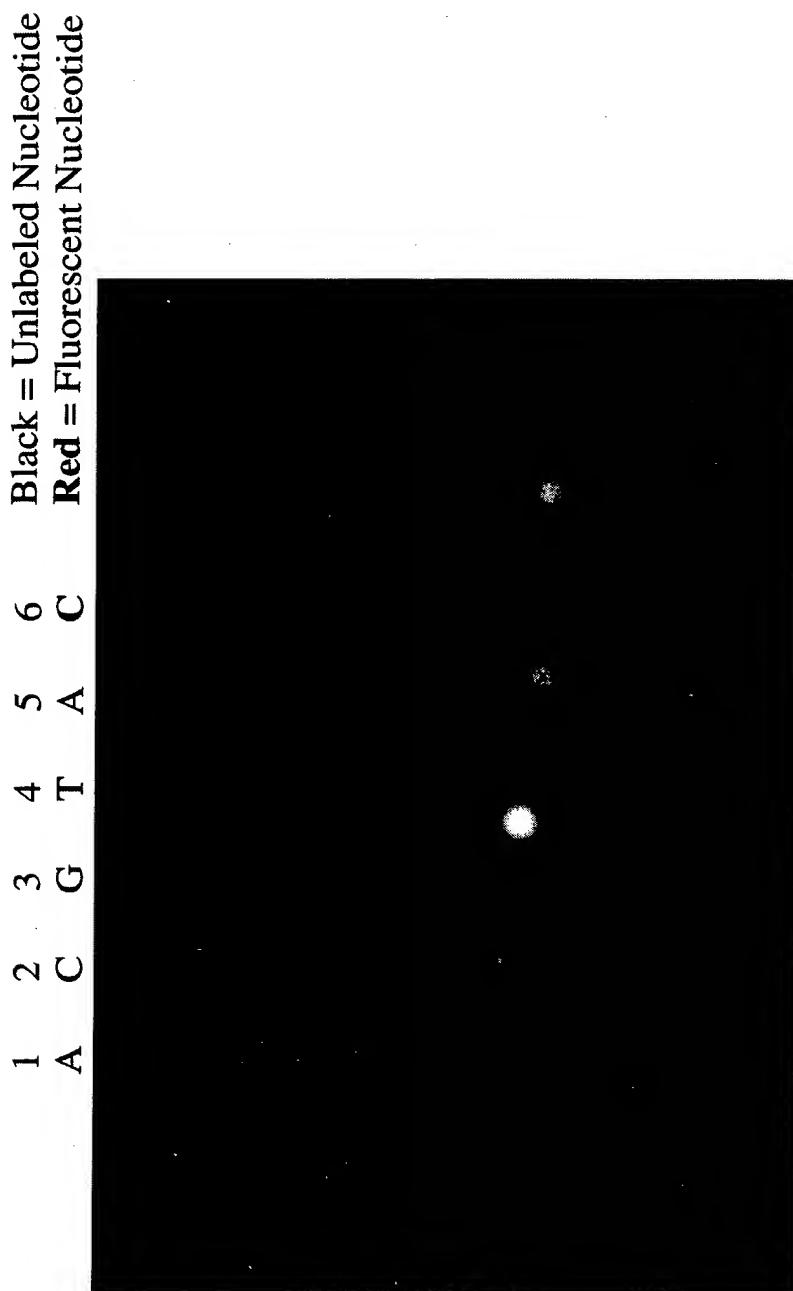


CYCLE
ADDED:

1	2	3	4	5	6
A	C	G	T	A	C



Black = Unlabeled Nucleotide
Red = Fluorescent Nucleotide

3'	P'	A	G	C	T	G	T	...5'
5'	P	T	C					

3'	P'	G	T	C	T	A	T	...5'
5'	P	C	A					

Sample 1:
Sample 2:

FIG. 1

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2

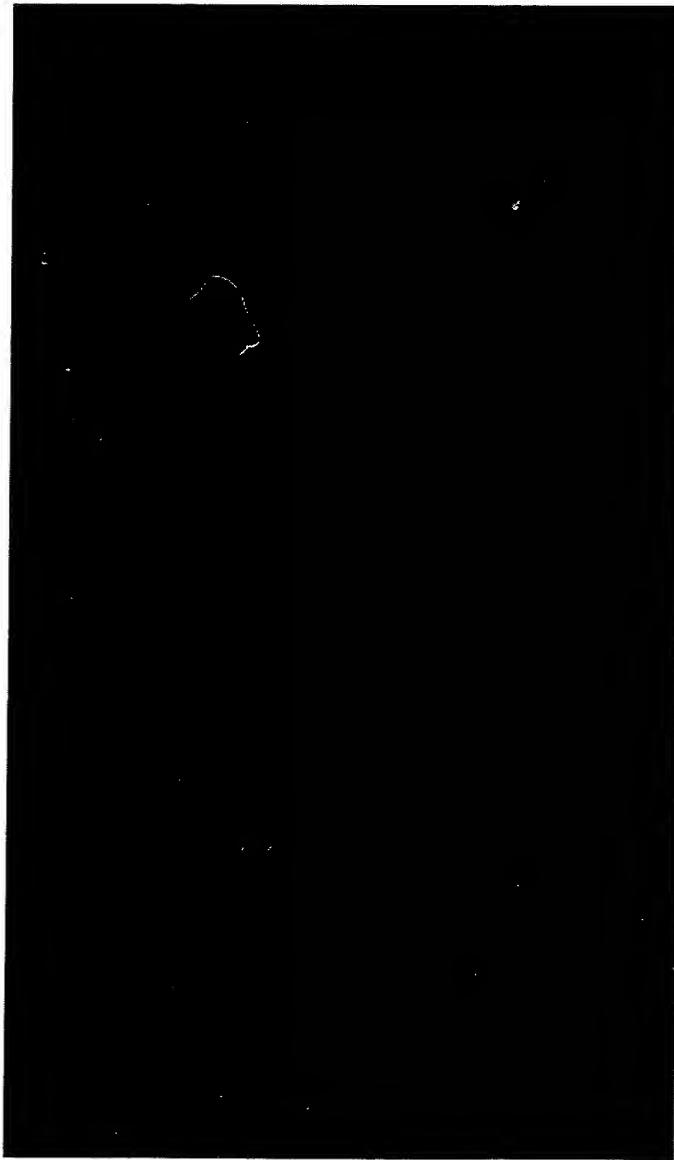
Sample 1:	3'	P'	A	G	C	T	G	T	...	5'
	5'	P	T	C	G					
Sample 2:	3'	P'	G	T	C	T	A	T	...	5'
	5'	P	C	A	G					

FIG. 2

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CYCLE
ADDED:

1	2	3	4	5	6	7	8	9	10
A	C	G	T	A	C	G	T	A	C



Sample 1:

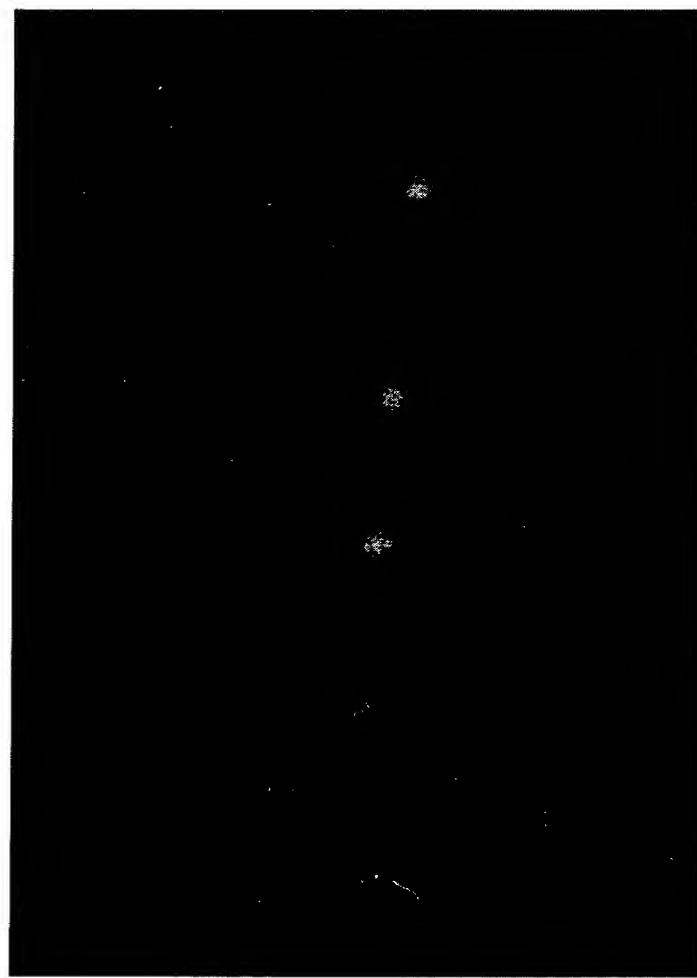
3'	A	G	C	T	G	T	...	5'
5'	T	C	G	A	C			
3'	G	T	C	T	A	T	...	5'
5'	C	A	G	A				

Sample 2:

3'	P								
5'	P								

FIG. 3

CYCLE
ADDED:
1 A
2 C
3 G
4 T
5 A
6 C
7 G
8 T
9 A
10 C
11 G
12 T



1

2

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Sample 1:	3' P, P	A	G	C	T	G	T5'
	5' P	T	C	G	A	C		
Sample 2:	3' P, P	G	T	C	T	A	T5'
	5' P	C	A	G	A	T		

FIG. 4

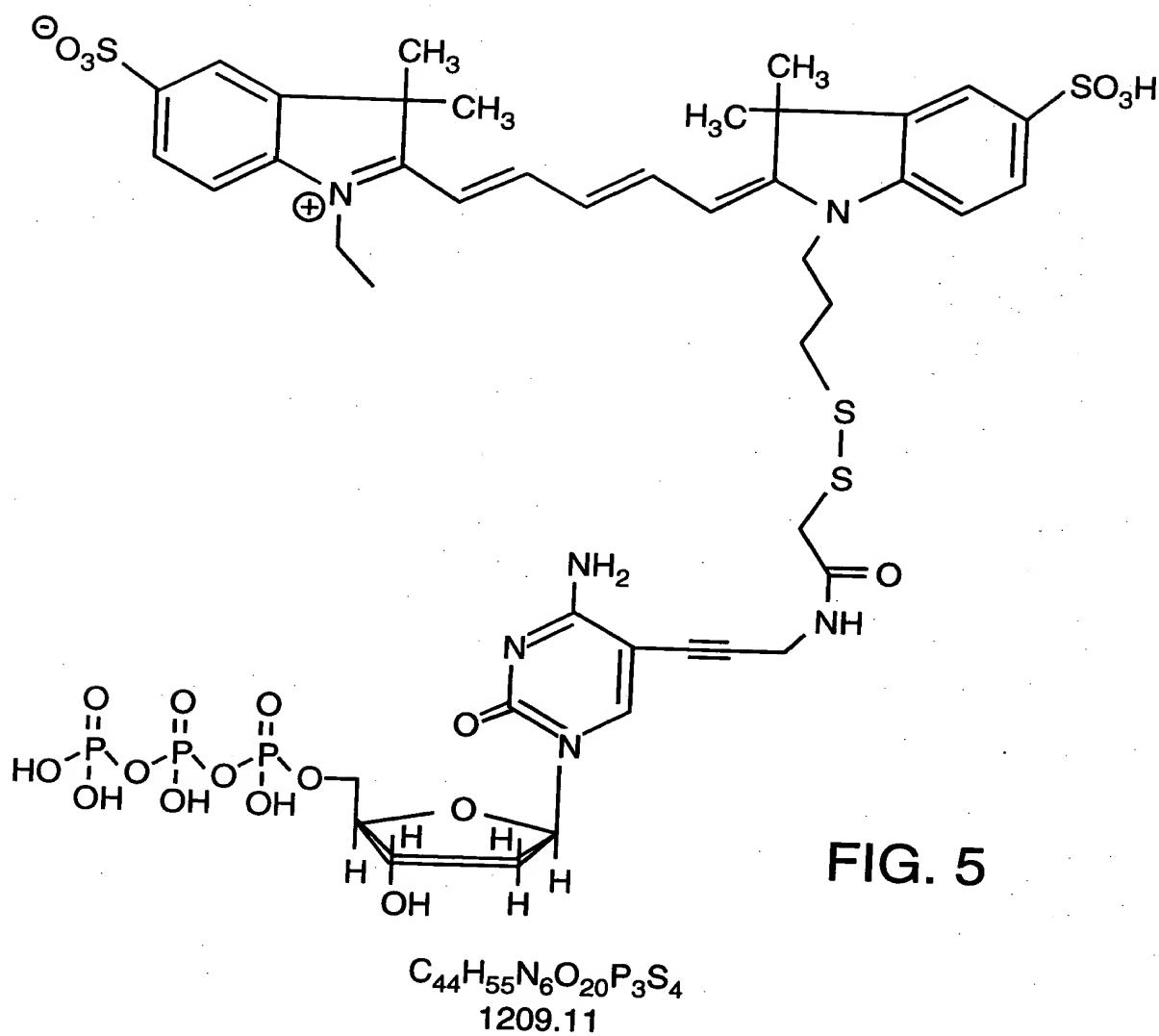


FIG. 5

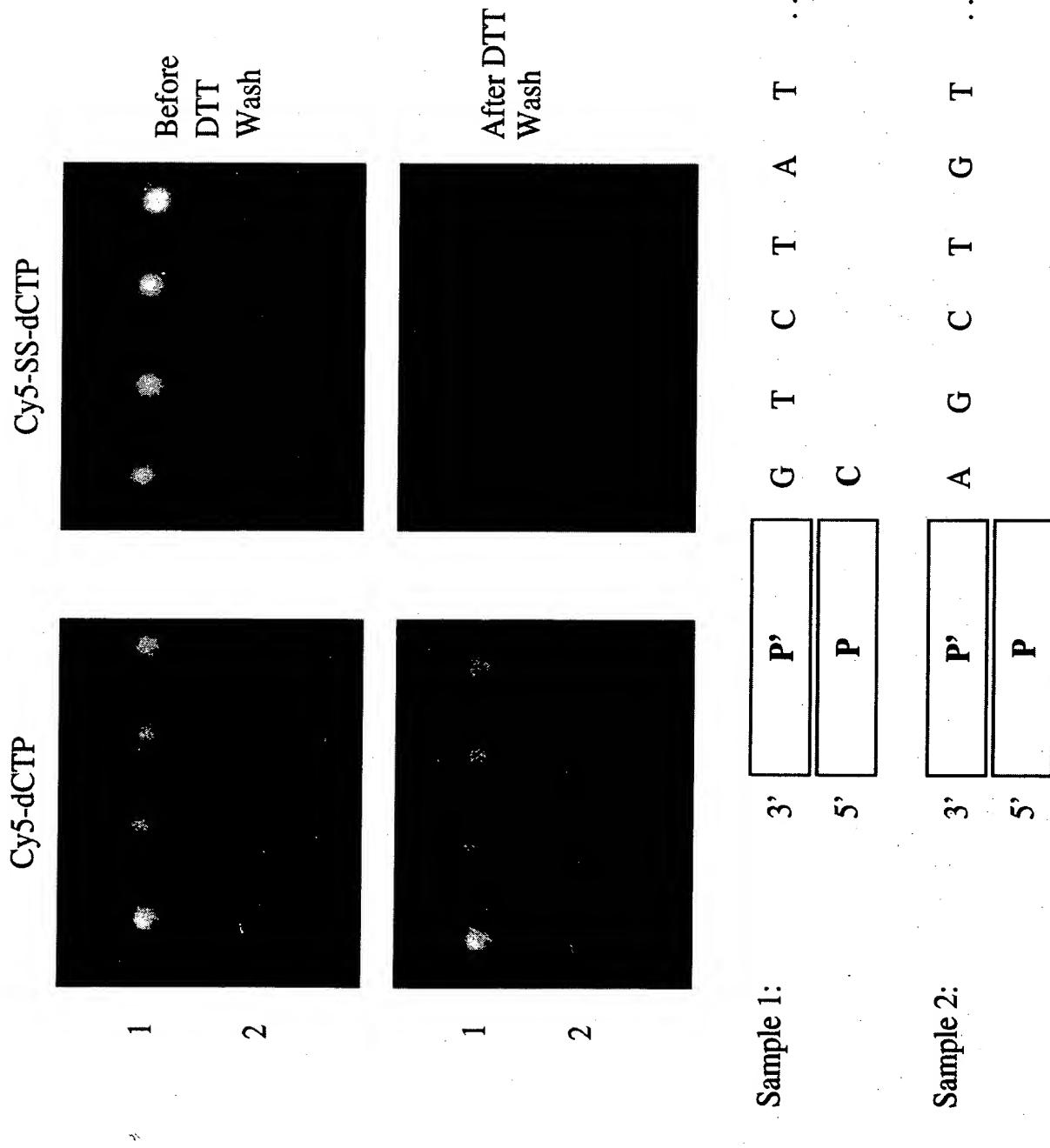


FIG. 6

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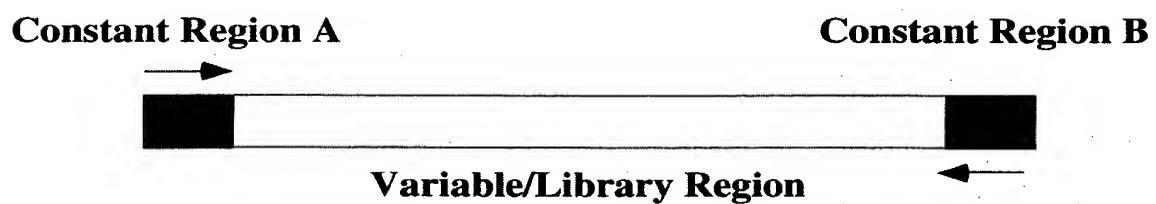


FIG. 7

TOP SECRET//COMINT

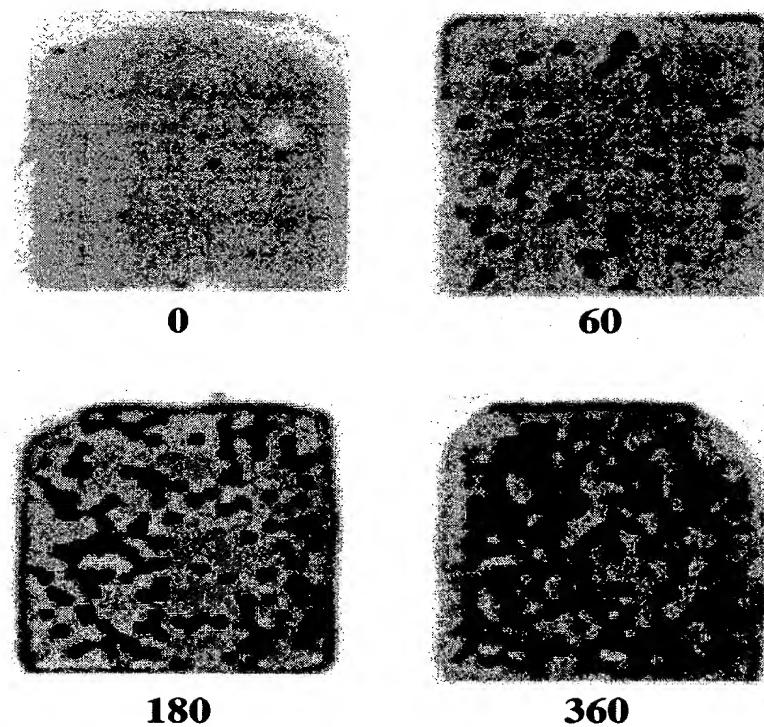


FIG. 8A

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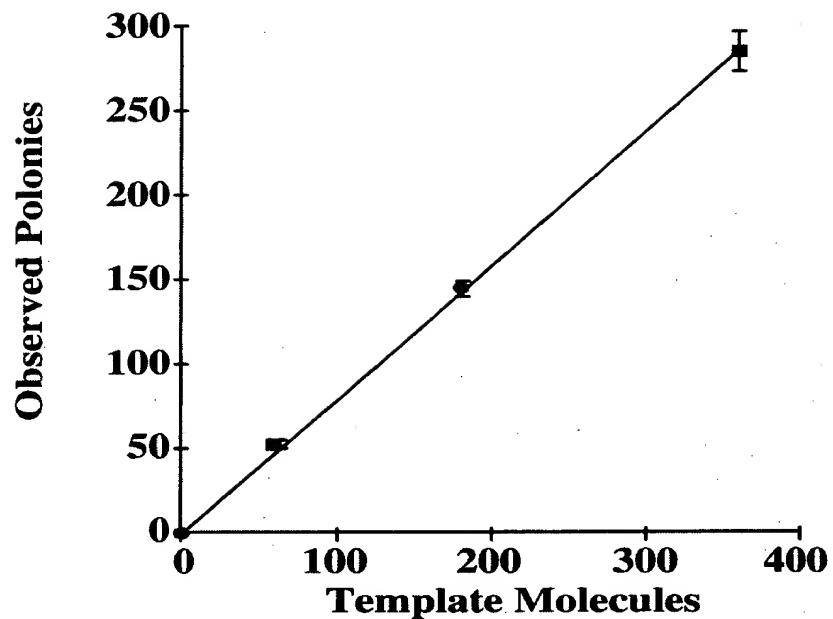


FIG. 8B

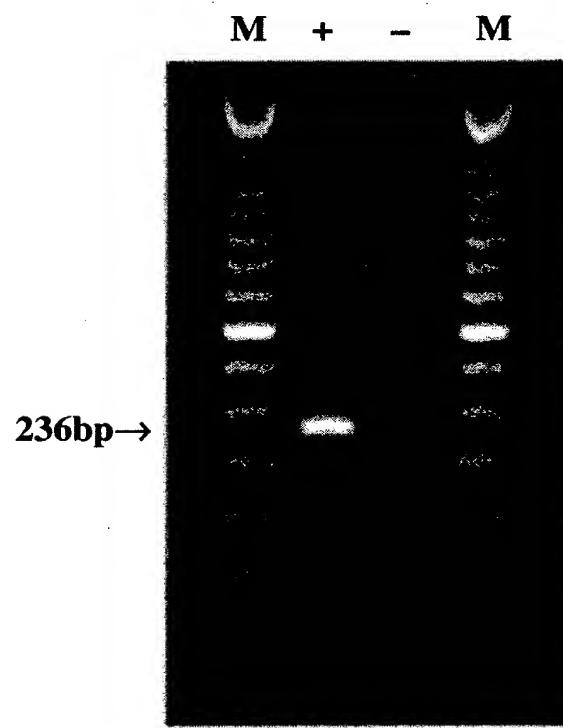


FIG. 8C

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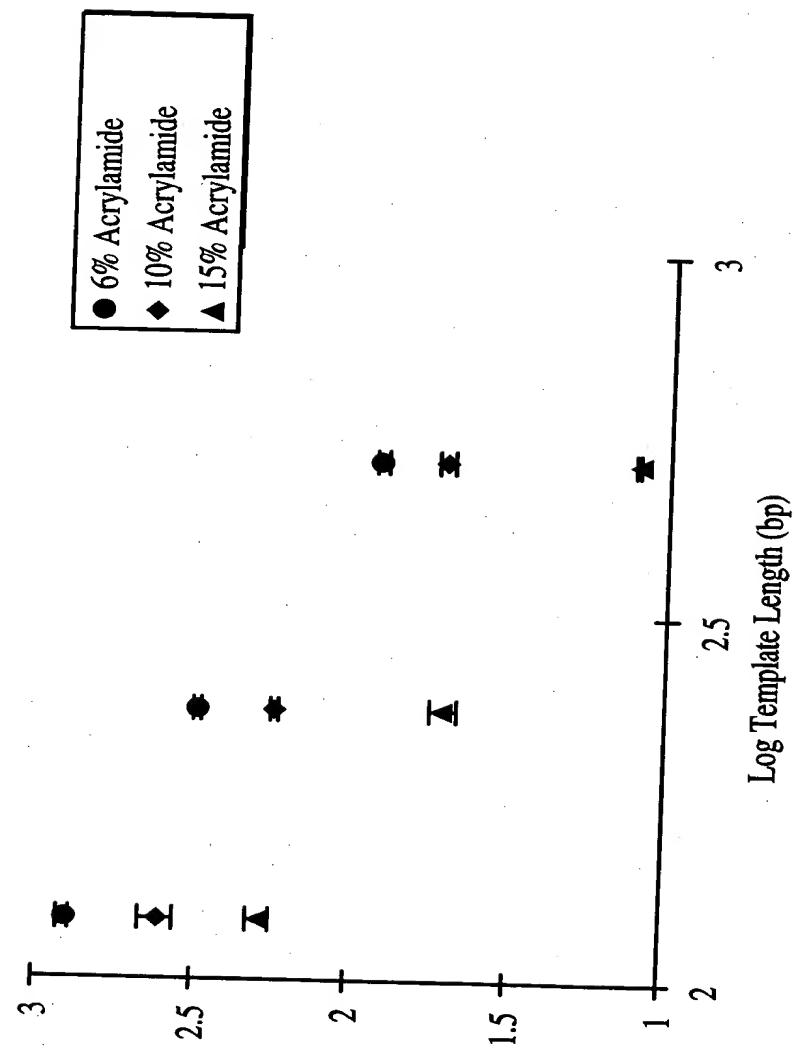


FIG. 9A

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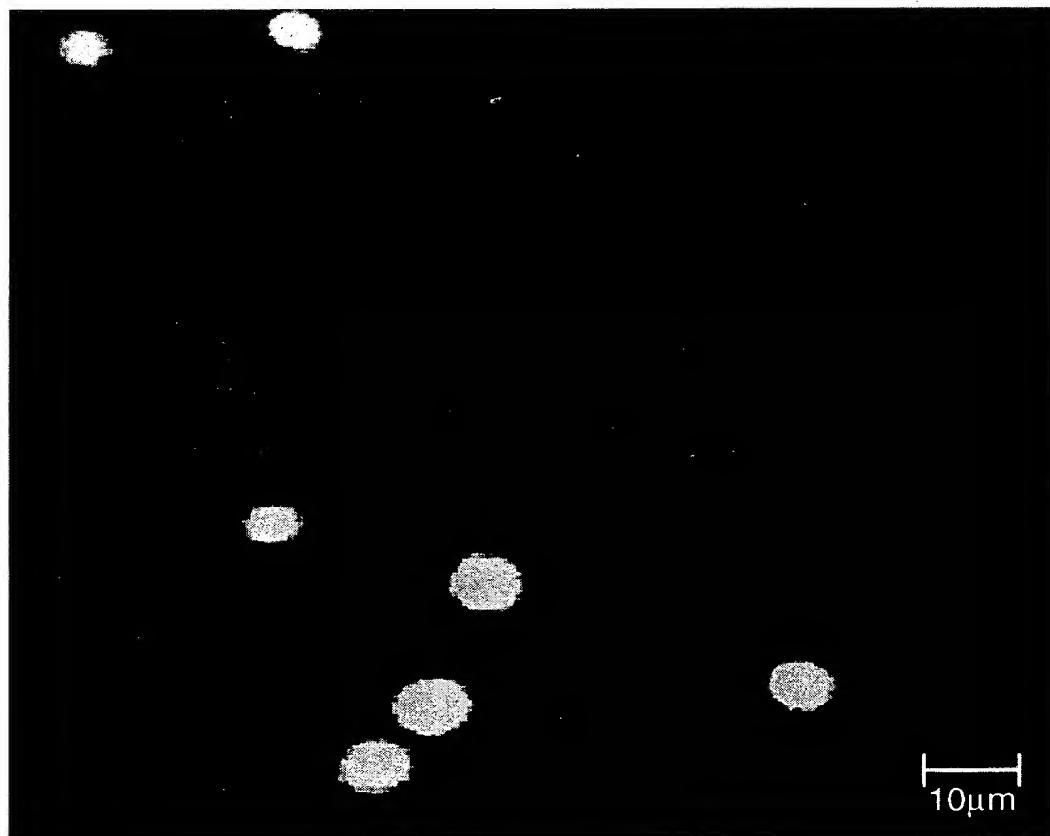


FIG. 9B

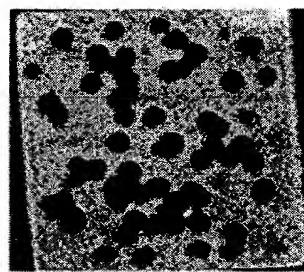


FIG. 10A

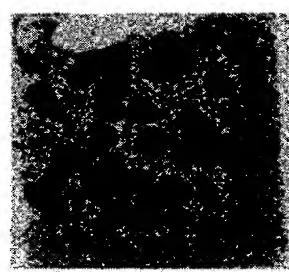


FIG. 10B